SEMICONDUCTOR DEVICE AND PROCESS OF PRODUCTION OF SAME

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ABSTRACT OF THE DISCLOSURE

A semiconductor device, in particular a thin semiconductor package, which reduces and simultaneously achieves a uniform mounting height, does not require complicated steps for mounting individual chips, improves the manufacturing yield, achieves a uniform height of the semiconductor device without being affected by the variation in thickness of the chip, and enables execution of an electrical test all together, and a process for production of the same, wherein a semiconductor is mounted, with its back surface exposed upward, on the top surface of an insulating tape substrate having through holes in the thickness direction, the area around the side surfaces of the semiconductor element is sealed by a sealing resin layer, metal interconnections formed on the bottom surface of the tape substrate define the bottom portions of the through holes of the tape substrate, a solder resist layer having through holes in the thickness direction covers the bottom surface of the metal interconnections and the tape substrate, connection terminals extending downward from the active surface of the semiconductor element are inserted into the through holes of the tape substrate, a filler comprised of a conductive material fills the gaps between the connection terminals and the through holes of the tape substrate, and the connection terminals and the metal interconnections are electrically connected.